



100
↘

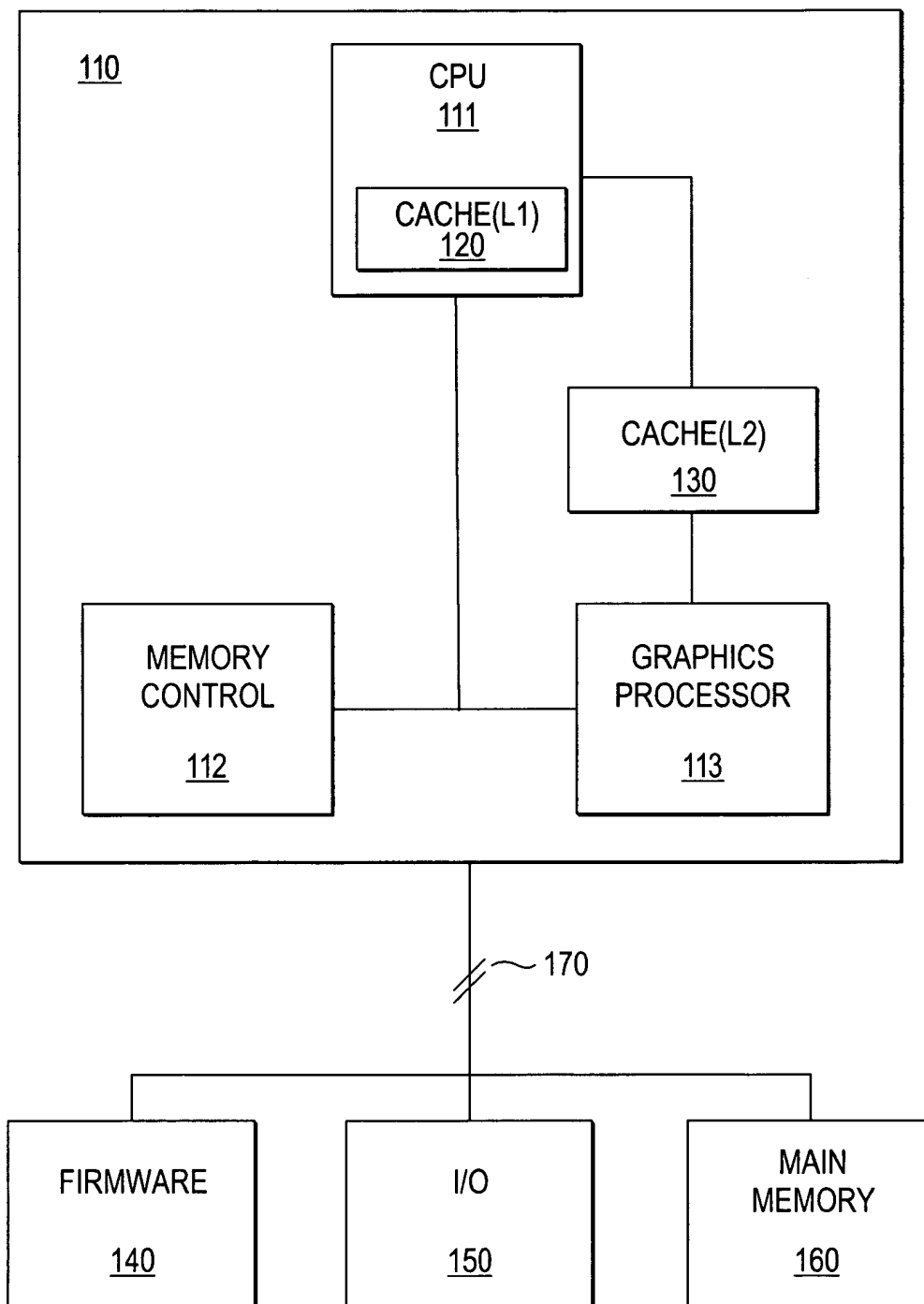


FIG. 1



300

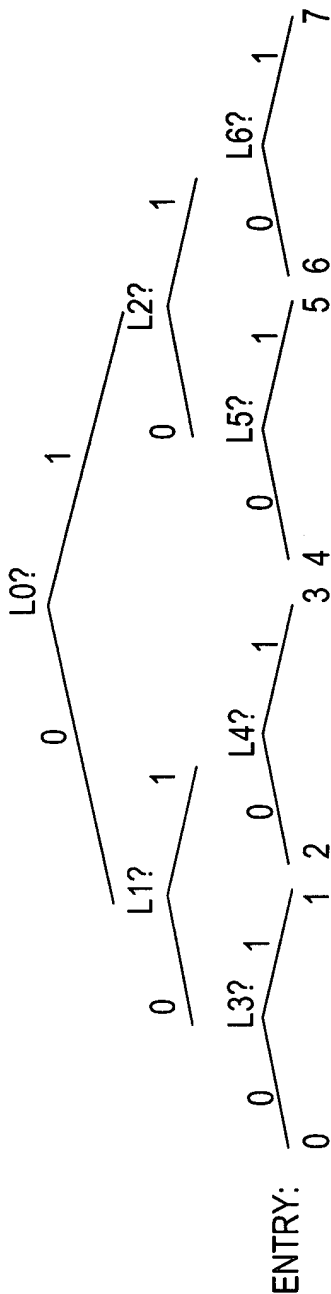


309		310		311 C	312 D
0A	1A	0B	1B		
2A	3A	2B	3B	315 G	316 H
313 E		314 F			
317 I		318 J		319 K	320 L
321 M		322 N			
				323 O	324 P

FIG. 2



PSEUDO-LRU REPLACEMENT MECHANISM



PSEUDO-LRU UPDATE BASED ON ENTRY HIT

Entry hit	New LRU Value										
	L0	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
0	1	1		1							
1	1	1		0							
2	1	0			1						
3	1	0			0						
4	0		1			1					
5	0		1				0				
6	0		0					1			
7	0		0						1		

FIG. 3

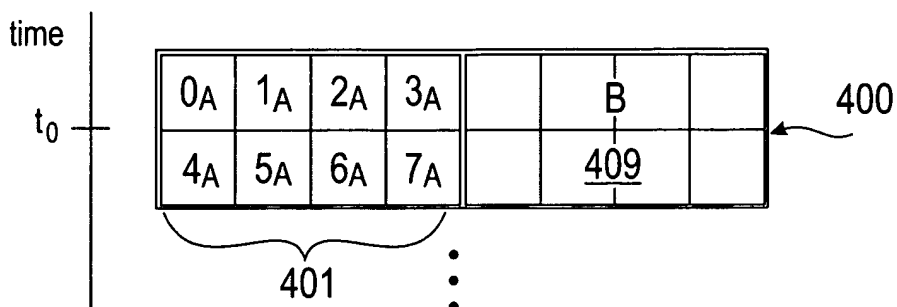
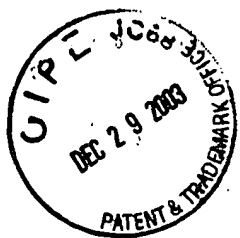


FIG. 4A

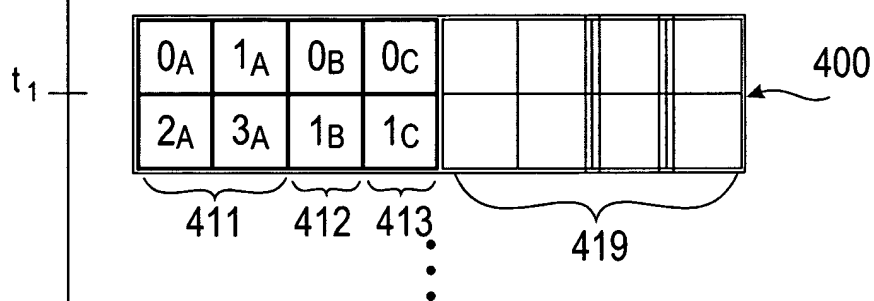


FIG. 4B

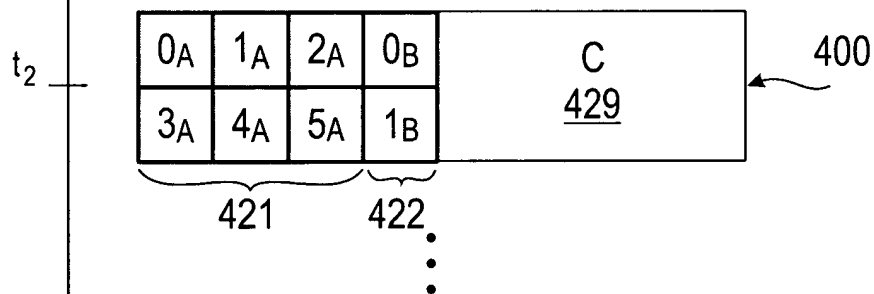


FIG. 4C

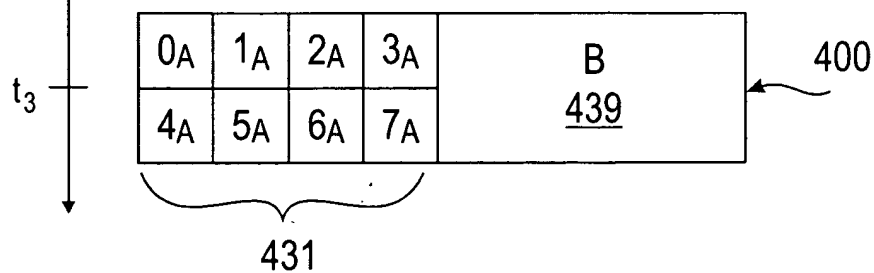


FIG. 4D

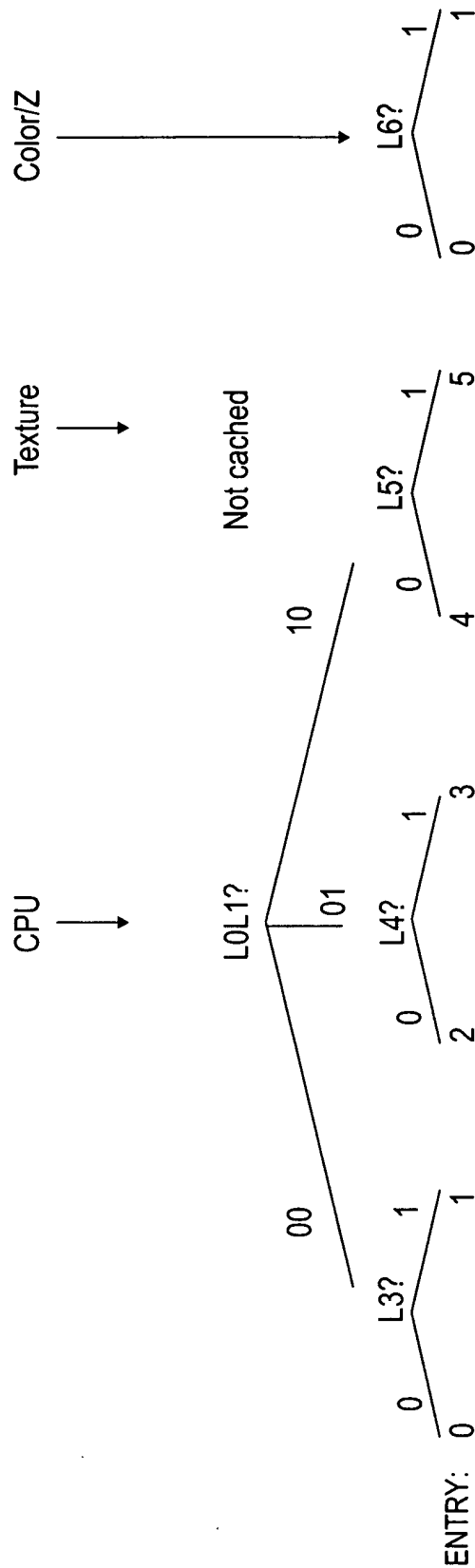
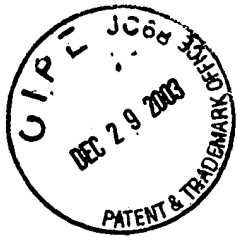


FIG. 5

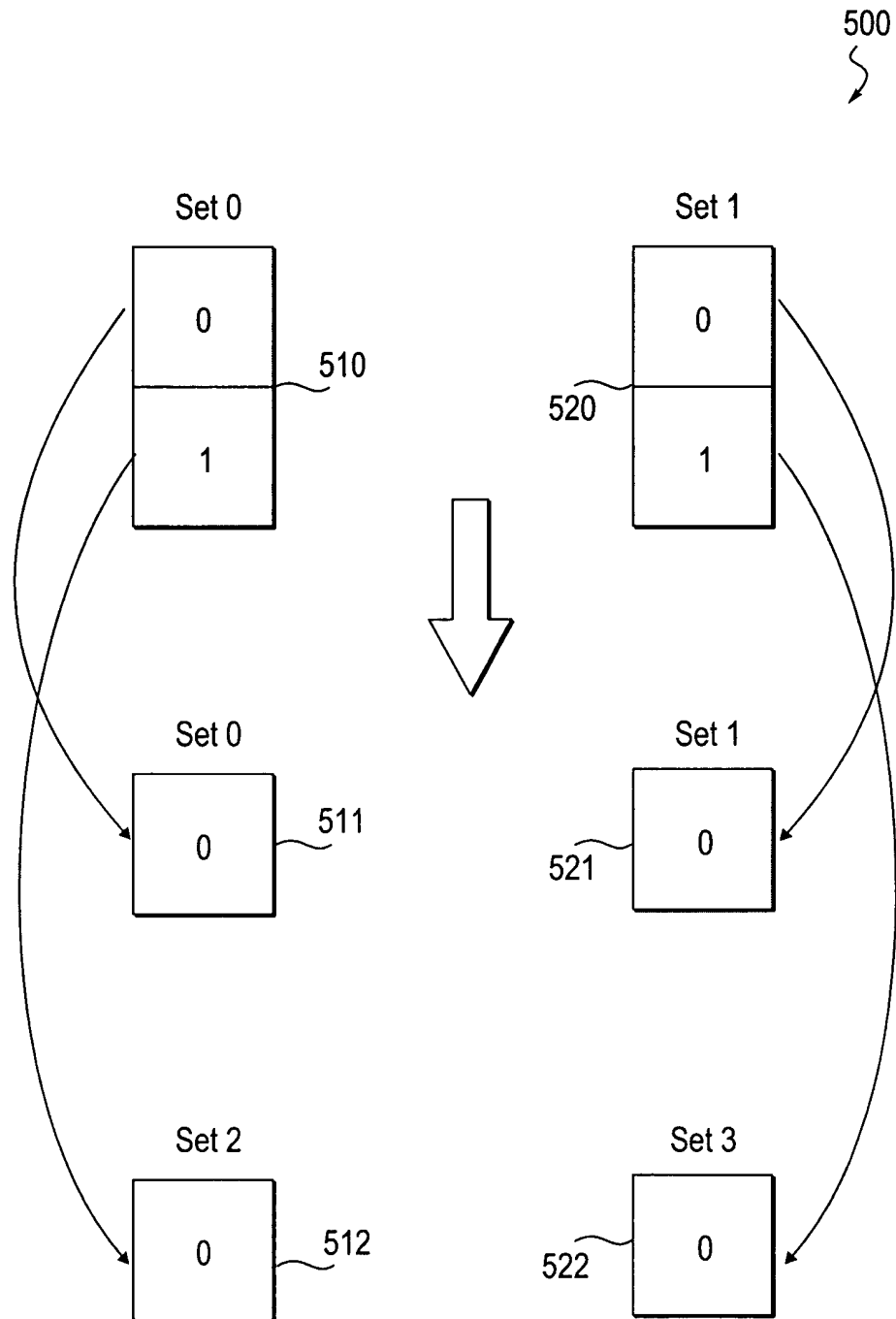
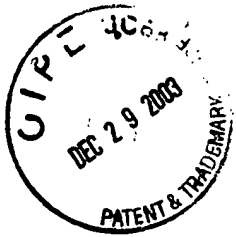


FIG. 6

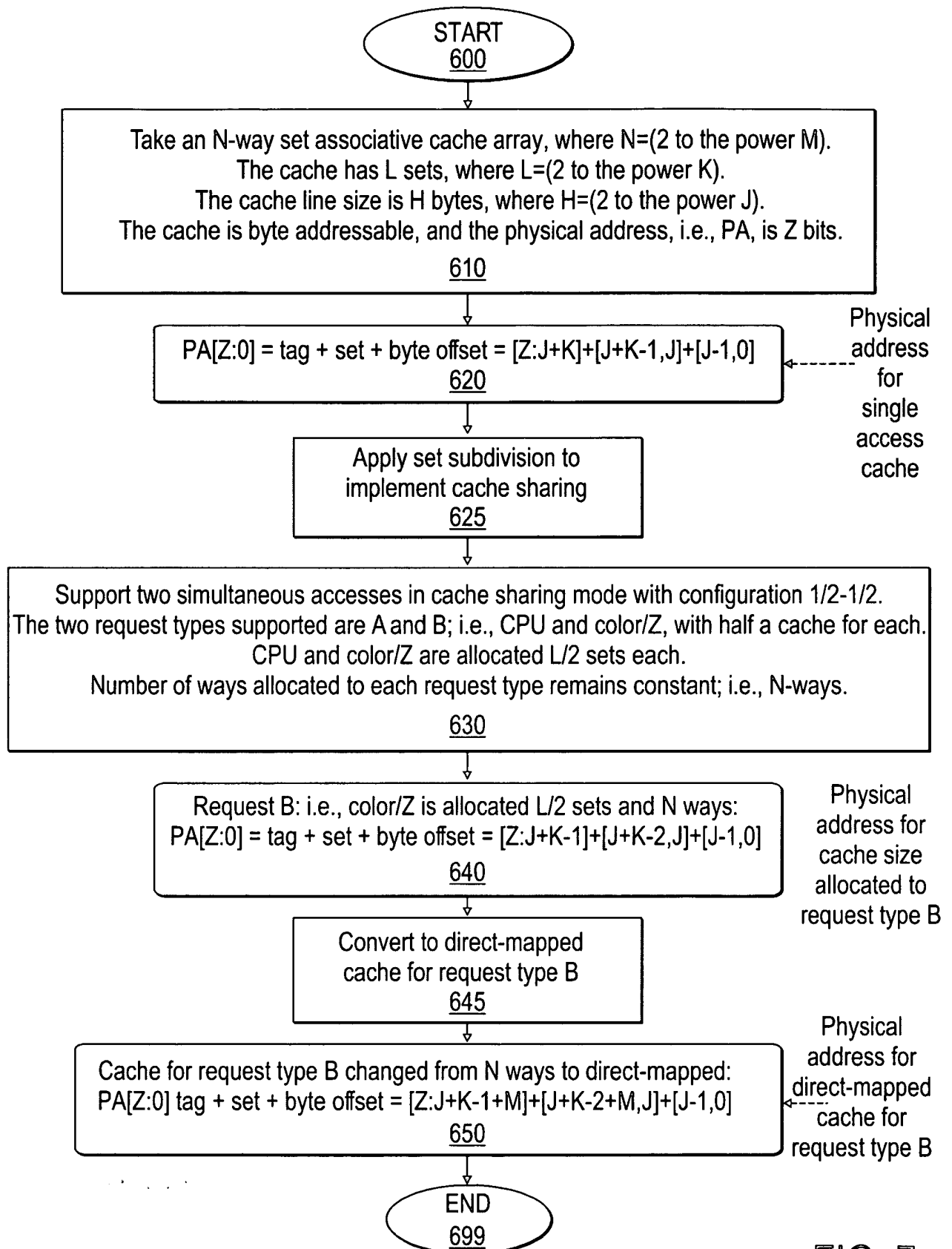
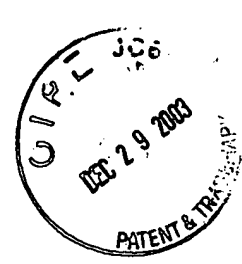
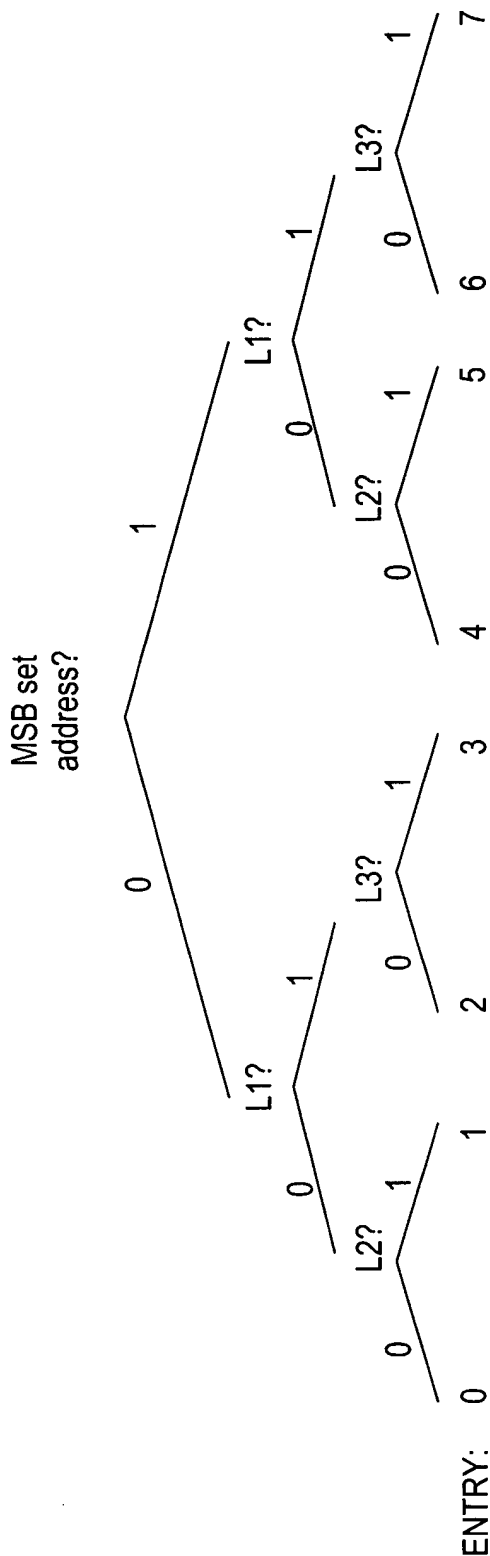


FIG. 7



PSEUDO-LRU UPDATE BASED ON ENTRY HIT

Entry hit	New LRU value			
	MSB	L1	L2	L3
0	1	1	1	
1	1	1	0	
2	1	0		1
3	1	0		0
4	0	1	1	
5	0	1	0	
6	0	0		1
7	0	0		0

FIG. 8